

REFERENCES

- Ahlbrandt, T.S., Fryberger, S.G., Hanley, J.H., and Bradbury, J.P., 1980, Geologic and paleoecologic studies of the Nebraska Sand Hills: U.S. Geological Survey Professional Paper 112–A, B, C.
- Alexander, R.B., Slack, J.R., Ludtke, A.S., Fitzgerald, K.K., and Schertz, T.L., 1996, Data from the U.S. Geological Survey National Stream Water-Quality Monitoring Networks (WQNATNET) on CD-ROM: U.S. Geological Survey Digital Data Series DDS–37.
- Bailey, Robert G., 1995, Descriptions of the ecoregions of the United States: U.S. Department of Agriculture, Forest Service, Miscellaneous Publication 1391, 108 p.
- Barker, Fred, 1969, Precambrian geology of the Needle Mountains, southwestern Colorado: U.S. Geological Survey Professional Paper 644–A, p. A1–A33.
- Biesecker, J.E., and Leifeste, D.K., 1975, Water quality of hydrologic benchmarks—An indicator of water quality in the natural environment: U.S. Geological Survey Circular 460–E, 21 p.
- Bleed, Ann, and Flowerday, Charles, eds., 1990, An atlas of the Sand Hills: University of Nebraska-Lincoln, Resource Atlas 5a, 265 p.
- Bluemle, J.P., 1975, Guide to the geology of southwestern North Dakota: North Dakota Geological Survey Educational Series 9, 37 p.
- 1988, Guide to the geology of southeastern North Dakota: North Dakota Geological Survey Educational Series 18, 36 p.
- Boohar, J.A., Hoy, C.G., and Jelinek, F.J., 1996, Water resources data, Nebraska, water year 1995: U.S. Geological Survey Water-Data Report NE–95–1, 320 p.
- Boyd, R.A., 1996, Distribution of nitrate and orthophosphate in selected streams in central Nebraska: Water Resources Bulletin, December 1996, v. 32, no. 6, p. 1247–1257.
- Burr, M.J., Teller, R.W., and Neizert, K.M., 1996, Water resources data, South Dakota, water year 1995: U.S. Geological Survey Water-Data Report SD–95–1, 379 p.
- Campbell, D.H., and Turk, J.T., 1988, Effects of sulfur dioxide emissions on stream chemistry in the western United States: Water Resources Research, v. 24, no. 6, p. 871–878.
- Carlson, C.G., 1985, Geology of McKenzie County, North Dakota: North Dakota Geological Survey, Bulletin 80, Part 1.

Carrara, P.E., 1990, Surficial geologic map of Glacier National Park, Montana: U.S. Geological Survey Miscellaneous Investigation Series Map I-1508-D.

Cobb, E.D., and Biesecker, J.E., 1971, The National Hydrologic Bench-Mark Network: U.S. Geological Survey Circular 460-D, 38 p.

Coen, Brenda, ed., 1992, Science in Glacier National Park: National Park Service Annual Report, 1991-92, 72 p.

Colton, R.B., Whitaker, S.T., and Ehler, W.C., 1989, Geologic map of the Opheim 1× $\frac{1}{2}$ 30' quadrangle, Valley and Daniels Counties, Montana: U.S. Geological Survey Open-File Report 89-319, 10 p., scale 1:100,000.

Cornwell, Kevin, 1990, Variations in flow of the Dismal River in north central Nebraska as related to atmospheric pressure changes: American Geophysical Union, EOS, 1990 Fall Meeting Proceedings, San Francisco, California, p. 1327.

Cross, W., and Larsen, E.S., 1935, A brief review of the geology of the San Juan Region of southwestern Colorado: U.S. Geological Survey Bulletin 843, 138 p.

Crowfoot, R.M., Ugland, R.C., Maura, W.S., Steger, R.D., and O'Neill, G.B., 1996a, Water resources data, Colorado, water year 1995—v. 1, Missouri River Basin, Arkansas River Basin, and Rio Grande Basin: U.S. Geological Survey Water-Data Report CO-95-1, 506 p.

Crowfoot, R.M., Ugland, R.C., Maura, W.S., Jenkins, R.A., and O'Neill, G.B., 1996b, Water resources data, Colorado, water year 1995—v. 2, Colorado River Basin: U.S. Geological Survey Water-Data Report CO-95-2, 471 p.

Darton, N.H., 1951, Geologic map of South Dakota: U.S. Geological Survey, 1 pl.

Deer, W.A., Howie, R.A., and Zussman, J., 1966, An introduction to the rock-forming minerals: England, Longman Group Limited, 528 p.

DeWitt, Ed, Redden, J.A., Busher, David, and Wilson, A.B., 1989, Geologic map of the Black Hills area, South Dakota and Wyoming: U.S. Geological Survey Miscellaneous Investigations Series Map I-1910, 1 pl., scale 1:250,000.

DeWitt, Ed, Redden, J.A., Wilson, A.B., Buscher, David, and Dersche, J.S., 1986, Mineral resource potential and geology of the Black Hills National Forest, South Dakota and Wyoming: U.S. Geological Survey Bulletin 1580, 135 p.

Driscoll, D.G., 1992, Plan of study for the Black Hills hydrology study, South Dakota: U.S. Geological Survey Open-File Report 92-84, 10 p.

Durum, W.H., 1978, Historical profile of quality of water laboratories and activities, 1879–1973: U.S. Geological Survey Open-File Report 78–432, 235 p.

Earhart, R.L., Raup, O.B., Whipple, J.W., Ison, A.L., and Davis, G.A., 1990, Geologic maps, cross section, and photographs of the central part of Glacier National Park, Montana: U.S. Geological Survey Miscellaneous Investigation Series Map I–1508–B.

Fenneman, N.M., 1946, Physical divisions of the United States: Washington, D.C., U.S. Geological Survey special map, scale 1:7,000,000.

Fishman, M.J., and Friedman, L.C., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A1, 545 p.

Fishman, M.J., Raese, J.W., Gerlitz, C.N., and Husband, R.A., 1994, U.S. Geological Survey approved inorganic and organic method for the analysis of water and fluvial sediment, 1954–94: U.S. Geological Survey Open-File Report 94–351, 55 p.

Friedman, L.C., and Fishman, M.J., 1989, Evaluation of methods used from 1965 through 1982 to determine inorganic constituents in water samples: U.S. Geological Survey Water-Supply Paper 2293, 126 p.

Gilbert, J.A., and Pederson, D.T., 1988, Water quality study of boiling springs along the Dismal River in the Sand Hills of Nebraska: American Geophysical Union 1988 Fall Meeting Proceedings, EOS, v. 69, no. 44, p. 1186.

Gilliam, F.S., 1987, The chemistry of wet deposition for a tallgrass prairie ecosystem—Inputs and interactions with plant canopies: Biogeochemistry, v. 4, p. 203–217.

Glenn, W.R., 1981, Soil resource inventory order 3, Cache Creek-Little Granite Creek EIS area, Bridger-Teton National Forest: U.S. Geological Survey Open-File Report 81–855, 51 p.

Goetze, P.R., 1981, Regional geologic map for the Cache Creek-Bear Thrust environmental impact statement, Teton and Sublette Counties, Wyoming: U.S. Geological Survey Open-File Report 81–856, scale 1:48,000.

Gonzales, D.A., 1988, A geologic investigation of the early Proterozoic Irving Formation, southeastern Needle Mountains, Colorado: U.S. Geological Survey Open-File Report 88–660, 119 p.

Guhman, A.I., and Pederson, D.T., 1992, Boiling sand springs, Dismal River, Nebraska—Agents for formation of vertical cylindrical structures and geomorphic change: *Geology*, v. 20, January 1992, p. 8–10.

Hainly, R.A., and Ritter, J.R., 1986, Areal and temporal variability of selected water-quality characteristics in two hydrologic-benchmark basins in the Northeastern United States: U.S. Geological Survey Water-Resources Investigations Report 85-4025, 22 p.

Harkness, R.E., Haffield, N.D., Berkas, W.R., Norbeck, S.W., and Strobel, M.L., 1996, Water resources data, North Dakota, water year 1995: U.S. Geological Survey Water-Data Report ND-95-1, 534 p.

Harris, K.L., and Luther, M.R., 1991, Surface geology of the Goose River map area: North Dakota Geological Survey Atlas Series Map 14, sheet A1.

Helgesen, J.O., ed., 1996, Surface-water-quality assessment of the lower Kansas River basin, Kansas and Nebraska—Results of investigations 1987-90: U.S. Geological Survey Water-Supply Paper 2451, 129 p.

Hem, J.D., 1992, Study and interpretation of the chemical characteristics of natural water: U.S. Geological Survey Water-Supply Paper 2254, 263 p.

Hirsch, R.M., Slack, J.R., and Smith, R.A., 1982, Techniques of trend analysis for monthly water-quality data: *Water Resources Research*, v. 18, no. 1, p. 107-121.

Houston, R.S., and Graff, P.J., 1995, Geologic map of Precambrian rocks of the Sierra Madre, Carbon County, Wyoming, and Jackson and Routt Counties, Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I-2452, 2 sheets.

Jewett, J.M., 1941, The geology of Riley and Geary Counties, Kansas: State Geological Survey of Kansas Bulletin 39.

Johnsson, P.A., and Barringer, J.L., 1993, Water quality and hydrogeochemical processes in McDonalds Branch basin, New Jersey Pinelands, 1984-88: U.S. Geological Survey Water-Resources Investigations Report 91-4081, 111 p.

Kling, G.W., and Grant, M.C., 1984, Acid precipitation in the Colorado Front Range—An overview with time predictions for significant effects: *Arctic and Alpine Research*, v. 16, no. 3, p. 321-29.

Knapp, A.K., Briggs, J.M., Hartnett, D.C., and Collins, S.L., eds., 1998, Grassland dynamics—Long-term ecological research in tallgrass prairie: Oxford University, 386 p.

Koch, N.C., and McGarvie, S.D., 1988, Water resources of Miner County, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 86-4035, 37 p.

Lawrence, C.L., 1987, Streamflow characteristics at hydrologic benchmark stations: U.S. Geological Survey Circular 941, 123 p.

Leopold, L.B., 1962, A national network of hydrologic bench marks: U.S. Geological Survey Circular 460-B, 4 p.

Lewis, W.M., Jr., and Grant, M.C., 1980, Acid precipitation in the western United States: *Science*, v. 207, no. 4427, p. 176-177.

Lins, H.F., 1986, Recent patterns of sulfate variability in pristine streams: *Atmospheric Environment*, v. 20, no. 2, p. 367-375.

Lins, H.F., 1987, Trend analysis of monthly sulfur dioxide emissions in the conterminous United States, 1975-1984: *Atmospheric Environment*, v. 21, no.11, p. 2297-2309.

Lord, D.G., Barringer, J.L., Johnsson, P.A., Schuster, P.A., Walker, R.L., Fairchild, J.E., Sroka, B.N., and Jacobsen, Eric, 1990, Hydrogeochemical data from an acidic deposition study at McDonalds Branch basin in the New Jersey Pinelands, 1983-86: U.S. Geological Survey Open-File Report 88-500, 124 p.

Lynch, J.A., Bowersox, V.C., and Grimm, J.W., 1995, Trends in precipitation chemistry in the United States—A national perspective, 1980-92: *Atmospheric Environment*, v. 29, no. 11. p. 1231-1246.

McArthur, J.V., Gurtz, M.E., Tate, C.M., and Gilliam, F.S., 1985, The interaction of biological and hydrological phenomena that mediate the qualities of water draining native tallgrass prairie on the Konza Prairie Research Natural Area, *in* Perspectives on nonpoint source pollution: Kansas City, Proceedings of a National Conference, U.S. Environmental Protection Agency 440/5-85-001, p. 478-82.

Moench, R.H., Grambling, J.A., and Robertson, J.M., 1988, Geologic map of the Pecos Wilderness, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1921-B, 2 pl., 1:48,000.

Mueller, D.K., Hamilton, P.A., Helsel, D.R., Hitt, K.J., and Ruddy, B.C., 1995, Nutrients in ground water and surface water of the United States—An analysis of data through 1992: U.S. Geological Survey Water-Resources Investigations Report 95-4031, 74 p.

National Acid Precipitation Assessment Program, 1993: Washington, D.C., Report to Congress 1992, 130 p.

National Atmospheric Deposition Program/National Trends Network, 1996, NADP/NTN Wet deposition in the United States, 1995: Fort Collins, Colorado State University, Natural Resource Ecology Laboratory, 10 p.

National Atmospheric Deposition Program/National Trends Network, 1997, Inside rain, a look at the National Atmospheric Deposition Program: Fort Collins, Colorado State University, Natural Resource Ecology Laboratory, 24 p.

National Climatic Data Center, 1996, Summary of the day, CD-ROM: Boulder, Colorado, EarthInfo Incorporated.

Ortiz, David, and Lange, K.M., 1996, Water resources data, New Mexico, water year 1995: U.S. Geological Survey Water-Data Report NM-95-1, 629 p.

Parrett, Charles, and Hull, J.A., 1989, Streamflow characteristics of small tributaries of Rock Creek, Milk River Basin, Montana, base period water years 1983-87: U.S. Geological Survey Water-Resources Investigations Report 89-4206, 10 p.

Peden, M.E., 1983, Sampling, analytical, and quality assurance protocols for the National Atmospheric Deposition Program, *in* Campbell, S.A., Sampling and analysis of rain: American Society for Testing and Materials, Special Technical Publication 823, p. 72-83.

Putnam, J.E., Lacock, D.L., Schneider, D.R., Carlson, M.D., and Dague, B.J., 1996, Water resources data, Kansas, water year 1995: U.S. Geological Survey Water-Data Report KS-95-1, 488 p.

Ratte', J.C., and Gaskill, D.L., 1975, Reconnaissance geologic map of the Gila Wilderness Study Area, southwest New Mexico: U.S. Geological Survey Miscellaneous Investigation Series Map I-886, scale 1:62,500.

Ratte', J.C., Gaskill, D.L., Eaton, G.P., Peterson, D.L., Stotelmeyer, R.B., and Meeves, H.C., 1979, Mineral resources of the Gila Primitive Area and Gila Wilderness, New Mexico: U.S. Geological Survey Bulletin 1451, 229 p.

Schertz, T.L., Alexander, R.B., and Ohe, D.J., 1991, The computer program Estimate Trend (ESTREND), a system for the detection of trends in water-quality data: U.S. Geological Survey Water-Resources Investigations Report 91-4040, 60 p.

Schertz, T.L., Wells, F.C., and Ohe, D.J., 1994, Sources of trends in water-quality data for selected streams in Texas, 1975-89 water years: U.S. Geological Survey Water-Resources Investigations Report 94-4213, 49 p.

Schroeder, Wayne, 1988, Geology and water resources of Miner County, South Dakota: Department of Water and Natural Resources, South Dakota Geological Survey Bulletin 31, 38 p.

Shields, R.R., White, M.K., Ladd, P.B., and Chambers, C.L., 1996, Water resources data, Montana, water year 1995: U.S. Geological Survey Water-Data Report MT-95-1, 521 p.

Simons, F.S., Love, J.D., Keefer, W.R., Harwood, D.S., and Kulik, D.M., 1988, Mineral resources of the Gros Ventre Wilderness Study Area, Teton and Sublette Counties, Wyoming: U.S. Geological Survey Bulletin 1591, 65 p.

Smalley, M.L., Woodruff, R.E., Clark, M.L., and McCollam, P.B., 1996, Water resources data, Wyoming, water year 1995: U.S. Geological Survey Water-Data Report WY-95-1, 393 p.

Smith, R.A., and Alexander, R.B., 1983, Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic benchmark stations: U.S. Geological Survey Circular 910, 12 p.

Snyder, G.L., 1980, Geologic map of the northernmost Park Range and southernmost Sierra Madre, Jackson and Routt Counties, Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I-1113, scale 1:48,000.

Snyder, G.L., Patten, L.L., and Daniels, J.J., 1987, Mount Zirkel Wilderness and northern Park Range vicinity, Colorado: U.S. Geological Survey Bulletin 1554.

Tate, C.M., 1990, Patterns and controls of nitrogen in tallgrass prairie streams: Ecology, v. 71, no. 5, p. 2007–2018.

U.S. Department of Agriculture, 1975a, Soil survey of Chaffee-Lake area, Colorado: U.S. Department of Agriculture, Soil Conservation Service, 78 p.

———1975b, Soil survey of Riley County and part of Geary County, Kansas: U.S. Department of Agriculture, Soil Conservation Service, 71 p.

1980, Soil survey of McCook County, South Dakota: U.S. Department of Agriculture, Soil Conservation Service, 123 p.

1984a, Soil survey of Miner County, South Dakota: U.S. Department of Agriculture, Soil Conservation Service, 116 p.

1984b, Soil survey of Valley County, Montana: U.S. Department of Agriculture, Soil Conservation Service, 102 p.

1990, Soil survey of Custer and Pennington Counties, Black Hills parts, South Dakota: U.S. Department of Agriculture, Soil Conservation Service, 295 p.

1997, Soil survey of Steele County, North Dakota: U.S. Department of Agriculture, Natural Resources Conservation Service, 214 p.

U.S. Geological Survey, 1982, Program and plan—National water-quality networks FY1983: Office of Water Quality Technical Memorandum No. 82.18, accessed December 27, 1999, at URL <http://water.usgs.gov/admin/memo/>.

U.S. Geological Survey, 1983, Analytical methods—Sulfate determinations: Office of Water Quality Technical Memorandum No. 83.07, accessed December 27, 1999, at URL <http://water.usgs.gov/admin/memo/>.

U.S. Geological Survey, 1989, Analytical methods—Turbidimetric sulfate method: Office of Water Quality Technical Memorandum No. 90.04, accessed December 27, 1999, at URL <http://water.usgs.gov/admin/memo/>.

U.S. Geological Survey, 1990, Programs and plans—National water-quality networks FY1991: Office of Water Quality Technical Memorandum No. 90.13, accessed December 27, 1999, at URL <http://water.usgs.gov/admin/memo/>.

U.S. Geological Survey, 1993, National water summary 1990–91—Hydrologic events and stream water quality: U.S. Geological Survey Water-Supply Paper 2400, 590 p.

U.S. Geological Survey, U.S. Bureau of Mines, New Mexico Bureau of Mines and Mineral Resources, 1980, Mineral resources of the Pecos Wilderness and adjacent areas, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties, New Mexico: U.S. Geological Survey Open-File Report 80–382, 103 p.

Van Loenen, R.E., 1985, Geologic map of the Mount Massive Wilderness, Lake County, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map 1792–A, 1 pl.

Van Loenen, R.E., Lee, G.K., Campbell, D.L., and Thompson, J.R., 1989, Mineral resource potential of Mount Massive Wilderness, Lake County, Colorado: U.S. Geological Survey Bulletin 1636, 18 p., scale 1:50,000.

Whitaker, S.H., and Pearson, D.E., 1972, Geological map of Saskatchewan: Province of Saskatchewan, Department of Mineral Resources and Saskatchewan Research Council, 1 pl.

Young, M.K., Haire, D., and Bozek, M.A., 1994, The effect and extent of railroad tie drives in streams of southeastern Wyoming: *Journal of Applied Forestry*, October 1994, v. 9, no. 4, p. 125–130.